

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Rory A.J. Curtis

Serial No.: N/A

Filed: Herewith

For: 25466, A HUMAN TRANSPORTER FAMILY
MEMBER AND USES THEREFOR

Attorney Docket No.: MPI2001-019P1RCP1(M)

Assistant Commissioner for Patents
Box Sequence
Washington, D.C. 20231

**TRANSMITTAL LETTER FOR DISKETTE CONTAINING COMPUTER READABLE
FORM OF SEQUENCE LISTING**

Dear Sir:

Enclosed is a diskette which contains a computer readable form of the Sequence Listing for the patent application filed herewith. The Sequence Listing complies with the requirements of 37 C.F.R. § 1.821. The material on this diskette is identical in substance to the Sequence Listing which is submitted herewith, as required by 37 C.F.R. § 1.821(f). The computer readable form of the sequence listing contained on the enclosed diskette is understood to comply with the requirements of § 1.824(d).

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Signature

Sean Hunziker
Sean Hunziker

Please Print Name of Person Signing

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SEQUENCE LISTING

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Millennium Pharmaceuticals Inc.

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Therefor

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275 280 285
Gly Ser Leu Ala Ser Leu Gly Thr Gln Leu Phe Leu Pro Gly Ser Ile
290 295 300
Phe Leu Val Asn Phe Ala Lys Ser Leu Gly Glu Ser Leu Ser Ser Val
305 310 315 320
Lys Ser Lys Glu Ala Ala Phe Leu Leu Ser Ile Leu Gly Asp Ser Ser
325 330 335
Asp Lys Glu Gly Phe Gly Gly Ile Phe Ala Arg Pro Ala Thr Leu Leu
340 345 350
Ser Phe Leu Gly Phe Val Ala Asn Leu Lys Glu Thr Lys Ser Asn Arg
355 360 365
Pro Val Leu Ile Tyr Leu Leu Ser Leu Cys Ser Ile Val Ala Val Val
370 375 380
Ile Asn Gly Ile Leu Ser Arg Leu Ala Ser Ala Leu Ala Gly Ser Arg
385 390 395 400
Lys Glu Lys Lys Ile Lys Ser Met Ile Asp Lys Ile Glu Leu Lys Ser
405 410 415
Thr Phe Trp Gly Leu Phe Leu Phe Ser Leu Phe Phe Gly Val Gly Phe
420 425 430
Gly Ser Lys Lys Ala Val Val Ile Leu Ala Leu Gly Phe Leu Leu Phe
435 440 445
Ser Ile Leu Tyr Ala Ile Pro Val Val Gly Leu Gln Lys Tyr Ser Ser
450 455 460

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Ala Leu Gly Leu Thr Glu Thr Asp Ala Ser Thr Leu Ile Glu Ala Ile
 465 470 475 480
 Ala Val Leu Asn Ile Ile Gly Arg Pro Leu Ala Gly Leu Leu Ala Asp
 485 490 495
 Lys Thr Lys Asn Arg Lys Leu Ala Ile Tyr Asn Leu Ser Leu Ile Leu
 500 505 510
 Cys Gly Leu Phe Val Ala Phe Ala Pro Leu Ala Thr Ile Phe Leu Gly
 515 520 525
 Leu Ala Phe Tyr Cys Val Leu Phe Gly Ser Ile Val Phe Leu Leu Ala
 530 535 540
 Tyr Ala Phe Lys Gly Phe Cys Lys Gly Ser Tyr Ile Ala Leu Thr Ser
 545 550 555 560
 Val Ile Ala Val Asp Leu Thr Gly Leu Asp Lys Leu Ser Asn Ala Phe
 565 570 575
 Gly Leu Leu Leu Leu Phe Gln Gly Val Ala Thr Leu Val Gly Pro Pro
 580 585 590
 Ile Ala Gly Leu Leu Lys Asp Leu Thr Gly Ser Tyr Lys Val Ser Phe
 595 600 605
 Tyr Phe Ala
 610

<210> 5
 <211> 487
 <212> PRT
 <213> homo sapiens

<400> 5
 Met Leu Lys Arg Glu Gly Lys Val Gln Pro Tyr Thr Lys Thr Leu Asp
 1 5 10 15
 Gly Gly Trp Gly Trp Met Ile Val Ile His Phe Phe Leu Val Asn Val
 20 25 30
 Phe Val Met Gly Met Thr Lys Thr Phe Ala Ile Phe Phe Val Val Phe
 35 40 45
 Gln Glu Glu Phe Glu Gly Thr Ser Glu Gln Ile Gly Trp Ile Gly Ser
 50 55 60
 Ile Met Ser Ser Leu Arg Phe Cys Ala Gly Pro Leu Val Ala Ile Ile
 65 70 75 80
 Cys Asp Ile Leu Gly Glu Lys Thr Thr Ser Ile Leu Gly Ala Phe Val
 85 90 95
 Val Thr Gly Gly Tyr Leu Ile Ser Ser Trp Ala Thr Ser Ile Pro Phe
 100 105 110
 Leu Cys Val Thr Met Gly Leu Leu Pro Gly Leu Gly Ser Ala Phe Leu
 115 120 125
 Tyr Gln Val Ala Ala Val Val Thr Thr Lys Tyr Phe Lys Lys Arg Leu
 130 135 140
 Ala Leu Ser Thr Ala Ile Ala Arg Ser Gly Met Gly Leu Thr Phe Leu
 145 150 155 160
 Leu Ala Pro Phe Thr Lys Phe Leu Ile Asp Leu Tyr Asp Trp Thr Gly
 165 170 175
 Ala Leu Ile Leu Phe Gly Ala Ile Ala Leu Asn Leu Val Pro Ser Ser
 180 185 190
 Met Leu Leu Arg Pro Ile His Ile Lys Ser Glu Asn Asn Ser Gly Ile
 195 200 205
 Lys Asp Lys Gly Ser Ser Leu Ser Ala His Gly Pro Glu Ala His Ala
 210 215 220
 Thr Glu Thr His Cys His Glu Thr Glu Glu Ser Thr Ile Lys Asp Ser
 225 230 235 240
 Thr Thr Gln Lys Ala Gly Leu Pro Ser Lys Asn Leu Thr Val Ser Gln
 245 250 255
 Asn Gln Ser Glu Glu Phe Tyr Asn Gly Pro Asn Arg Asn Arg Leu Leu

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260	265	270
Leu Lys Ser Asp Glu Glu Ser Asp Lys Val Ile Ser Trp Ser Cys Lys		
275	280	285
Gln Leu Phe Asp Ile Ser Leu Phe Arg Asn Pro Phe Phe Tyr Ile Phe		
290	295	300
Thr Trp Ser Phe Leu Leu Ser Gln Leu Ala Tyr Phe Ile Pro Thr Phe		
305	310	315
His Leu Val Ala Arg Ala Lys Thr Leu Gly Ile Asp Ile Met Asp Ala		
325	330	335
Ser Tyr Leu Val Ser Val Ala Gly Ile Leu Glu Thr Val Ser Gln Ile		
340	345	350
Ile Ser Gly Trp Val Ala Asp Gln Asn Trp Ile Lys Lys Tyr His Tyr		
355	360	365
His Lys Ser Tyr Leu Ile Leu Cys Gly Ile Thr Asn Leu Leu Ala Pro		
370	375	380
Leu Ala Thr Thr Phe Pro Leu Leu Met Thr Tyr Thr Ile Cys Phe Ala		
385	390	395
Ile Phe Ala Gly Gly Tyr Leu Ala Leu Ile Leu Pro Val Leu Val Asp		
405	410	415
Leu Cys Arg Asn Ser Thr Val Asn Arg Phe Leu Gly Leu Ala Ser Phe		
420	425	430
Phe Ala Gly Met Ala Val Leu Ser Gly Pro Pro Ile Ala Gly Trp Leu		
435	440	445
Tyr Asp Tyr Thr Gln Thr Tyr Asn Gly Ser Phe Tyr Phe Ser Gly Ile		
450	455	460
Cys Tyr Leu Leu Ser Ser Val Ser Phe Phe Phe Val Pro Leu Ala Glu		
465	470	475
Arg Trp Lys Asn Ser Leu Thr		480
485		

<210> 6

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> consensus

<221> VARIANT

<222> 1

<223> The amino acid at position 1 can be glu.

<221> VARIANT

<222> 3

<223> The amino acid at position 3 can be ser.

<221> VARIANT

<222> 4

<223> The amino acid at position 4 can be phe.

<221> VARIANT

<222> 5

<223> The amino acid at position 5 can be ala.

<400> 6

Asp Gly Gly Trp Gly Trp

1

5

<210> 7

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<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> consensus

<221> VARIANT
<222> 5
<223> The amino acid at position 5 can be lys.

<221> VARIANT
<222> 6
<223> The amino acid at position 6 can be leu.

<221> VARIANT
<222> 11
<223> The amino acid at position 11 can be ala.

<221> VARIANT
<222> (1)...(16)
<223> Xaa = Any Amino Acid

<400> 7
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<210> 8
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> consensus

<221> VARIANT
<222> (1)...(22)
<223> Xaa = any amino acid

<400> 8
Leu Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa
1 5 10 15
Xaa Xaa Xaa Xaa Xaa Leu
20